

Matteo Martinelli Management Engineer

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Available to work abroad

🚀 Website: https://matteo-martinelli.github.io/ 🚀



Areas of interest: IT and software engineering, Project Management, Technical Sales and Account Management.

Professional Experience and Internships

Dec 2020 ->: Research Grant - Research group of Pervasive Computing, UNIMORE

- Workshops and Publications:
 - o Topic: Enabling causality learning in smart factories with hierarchical digital twins
 - Platform: Computers in Industry, "Autonomous, Context-Aware, Adaptive Digital Twins" Special Issue
 - o Topic: Poka Yoke meets Deep Learning: a Proof of Concept for an Assembly Line Application
 - Platform: MDPI Smart Manufacturing Systems in Industry4.0 Special Issue
 - o Topic: Conceptual Framework for individual and autonomous development of intelligent agents.
 - Platform: arXiv.
 - 29/11 3/12/2021: Causal Italy workshop AlxIA annual conference Milan, Italy.
 - 20-23/06/2022: SeLIE workshop IE annual conference Biarritz, France.

Nov 2019 - Dec 2020: Focus Improvement & Safety Specialist, Full time - Ognibene Power

• Main activities: micro-areas management and KPIs monitoring, Kaizen management, SMED, Workplace Organization Step 1–3, Operation Tag, EWO, suggestions monitoring and management, project management, S-EWO, Green Tags, Unsafe Conditions/Acts, S-Matrix monitoring, Green Cross monitoring.

Jun - Nov 2019: Workplace Organization Support, Part time - Ognibene Power

Main activities: Operation Tag analysis, assembly layout analysis and improvement, tooling card analysis
and improvement, time and methods analysis.

Jan - May 2019: Master's Degree Internship, Full time - Dana Motion System

Main activities: assembly line analysis, As Is State and Performance mapping, methods and time reengineering, Plan For Every Part, supplier coordination and solution implementation, Poka-Yoke POC engineering based on Convolutional Artificial Deep Neural Network.

Education & Training

Oct 2022 – Apr 2023: Guest Researcher at ISW - Institut für Steuerungstechnik der Werkzeugmaschinen (Institute for Technologies of machine tools control)

• Topics: *Digital Twins for Industry 4.0* and Composability - Universität Stuttgart, Stuttgart, Germany.

Jun 2022: ACAI TAILOR Summer School 2022 – Prize for the best PhD project presentation

■ Topics: Explainable and Trustworthy AI - Universitat Politècnica de Catalunya, Barcelona, Spain.

Dec 2020 ->: Ph.D. in Industrial Innovation Engineering - Research group of Pervasive Computing, UNIMORE

- Main topics: Al applied to IoT scenarios, Big Data analysis, Digital Twins.
- Project: Self-organizing systems in twinned industrial environment with autonomous learning and causal models.

Oct 2019: Management Engineering Master's Degree, UNIMORE

105/110

■ Thesis: "An assembly line re-engineering: The Dana Motion System case".

Jul 2017: participation at the Erasmus+ Program – Krakow, Poland

Dec 2015: Management Engineering Bachelor's Degree, UNIMORE

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■ Thesis: "Implementation of a reading and translation system of DXF files into two axis PLC instructions".

Computer Skills:

- Programming Languages: C#, Java, Python, JavaScript.
- o Web technologies: HTML, CSS.
- Programming Libraries: Keras, Numpy, Pandas, PuLP.
- DB Technologies and developing tools: SQL, document-oriented DBs, Docker, Git, UML.
- o Operating Systems: Windows, Ubuntu.
- Software: Anylogic Material Handling and Process Model libraries, Ms Office suite.

Languages

• English (C1 grade); German (A2 grade); Italian (mother language).

Soft Skills

- Precise
- Reliable

Communicative

- Loyal
- Open minded and learning oriented
- Assertive

Other Information

Attachment 1: Certificates and Badges.pdf

Date Matteo Martinelli

Certificates and Badges





Software and technologies for Data Science

Date: March 2021;

 Provided by: the Big DataLab project sponsored by the ESF.

https://openbadges.bestr.it/public/assertions/rh6U8Z45S8GyXH_Wx6koSg





Internet of Things and Predictive Analysis

o Date: June 2021;

 Provided by: the Big DataLab project sponsored by the ESF.

https://openbadges.bestr.it/public/assertions/JNZKBoomR8GTvI-0YMc3IQ





Deep Learning Applications

Date: June 2021;

 Provided by: the Big DataLab project sponsored by the ESF.

https://openbadges.bestr.it/public/assertions/bVoUXhQHRG2vhfunvjMTCw

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